

## **REMARKS/ARGUMENTS**

This amendment is being filed in response to the Office Action dated January 18, 2005. The deadline for responding has been extended for 3 months by way of a request for an extension of time submitted herewith.

### **I. Introduction**

Claims 7, 14, 21, 40, 43, 46-50, 56 and 58-59 have been canceled without prejudice. Claims 1, 4, 6, 8, 9, 12, 18, 22, 33-34, 41, 44, 45 and 51 have been amended. Accordingly, claims 1-6, 8-13, 15-20, 22-39, 41-42, 44-45, 51-55, and 57 are now pending.

In the Office Action the Examiner indicated that claims 27-39 were allowed, and that claims 7-9, 11, 14, 16, 21, 22, 26, 47, and 58 were directed to allowable subject matter and that these claims would be allowable if rewritten so as not to depend from a rejected base claim. Applicants thank the Examiner for this indication of allowable subject matter.

In addition to indicating that various claims were allowable the Examiner rejected claims 1-6, 10, 12, 13, 15, 17-20, 23-25, 40-46, 48-57 and 59.

In addition, the Examiner objected to the drawings, specification and claim 2 for the reasons set forth in the office action.

In view of the amendments to the drawings, specification and claims, it is respectfully submitted that the pending application is now in condition for allowance.

## **II. The Objections to the Specification and Drawings Has Been Overcome**

With regard to the drawings, the Examiner objected to Fig. 1 indicating that block 3 should include the term "Inverse" before "Fourier Transform Operator". The Examiner objected to the corresponding portion of the specification for omitting the word "Inverse" as well. Applicants have amended Fig. 1 and the corresponding portion of the specification in accordance with the Examiner's suggestions. Applicants respectfully request that the Examiner review and approve the amendments. **In view of the amendments, it is respectfully submitted that the objections to the drawings and specification have been overcome.**

## **III. The Objection to Claim 2**

In the Office Action the Examiner states:

Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. **The case M=N is already included in claim 1.**

Applicants respectfully submit that while claim 1 covers the case where  $M=N$ , claim 1 is broader than claim 2 since claim 1 recites "where  $M$  is an integer and where  $1 < M \leq N$ ". In the case of claim 1,  $M$  can be less than  $N$  or it can be equal to  $N$ .

**In the case of claim 2,  $N$  is required to equal  $M$ . Accordingly, claim 2 further limits claim 1 since it limits the range of values of  $M$  to a range smaller than that permitted in claim 1.**

In view of the above remarks, it is respectfully submitted that claim 2 further limits the subject matter of claim 1. Accordingly, Applicants respectfully request that the objection to claim 2 be withdrawn.

#### **IV. The Pending Claims Are in Condition for Allowance**

Applicants have carefully reviewed the allowed claims and the claims which the Examiner indicated were directed to allowable subject matter. Applicants have canceled various rejected claims and have amended each of the independent claims to include subject matter which was indicated to be allowable. Accordingly, all of the pending claims are now in condition for allowance.

Each of the pending claims will now be discussed further. The canceled claims will not be discussed since the rejections of these claims is rendered moot by the cancellation of the claims.

**1. Claims 1-6, 8, 10 and 11**

Claim 7 was indicated to be directed to allowable subject matter. Claim 1 has been amended to include the features of claim 7. Claim 7 has been canceled.

Accordingly, claim 1 as amended, and claims 2, 4, 5, 6, 8, 10 and 11 which depend there from are now in condition for allowance.

**2. Claim 9**

Claim 9 was indicated to be directed to allowable subject matter but was objected to for depending from a rejected claim. Claim 9 has been rewritten in independent form and is therefore now in condition for allowance since it no longer depends from a rejected claim.

**3. Claims 12, 13, and 15-17**

Claim 14 was indicated to be directed to allowable subject matter. Independent claim 12 has been amended to include the features of allowable claim 14 and dependent claim 14 has been canceled.

In view of the amendment to claim 12 it is respectfully submitted that claim 12 and claims 13 and 15-17 which depend there from are directed to allowable subject matter.

**4. Claims 18-20 and 22-26**

Claim 18 has been amended to include the features of dependent claim 21 which was indicated to be directed to allowable subject matter. Claim 21 has been canceled. Accordingly, claim 18 and claims 19-20 and 22-26 which depend therefrom are now in condition for allowance.

**5. Claims 27-29**

Claims 27-39 have been Allowed.

**6. Claims 41-42 and 44-45**

Claim 47 was indicated to be directed to allowable subject matter. Claim 41 has been amended to include features of allowable claim 47. In view of the amendment to claim 41, claims 43, 46 and 47 have been canceled. It is respectfully submitted that claim 41, and claims 42 and 44-45 which depend therefrom are in condition for allowance.

**7. Claims 51-56**

Claim 58 was indicated to be directed to allowable subject matter. Claim 51 was amended to include the feature of claim 58. Claim 58 has been canceled. In view of the amendment to claim 51, it is respectfully submitted that claim 51 and claims 52-56 which depend therefrom are in condition for allowance.

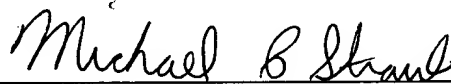
**V. Conclusion**

The drawings and specification have been amended thereby overcoming the Examiner's objections. Each of the pending claims has also been amended to include subject matter indicated to be allowable. Accordingly, the application is now in condition for allowance.

In the event that there are any outstanding issues that need to be resolved to place the application in condition for allowance, the Examiner is invited to contact Applicant's undersigned representative by telephone to discuss and hopefully resolve said issues.

Respectfully submitted,

July 15, 2005



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**CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)**

I hereby certify that this correspondence is being deposited on **July 15, 2005** with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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Reg. No.

**Amendments to the Drawings:**

The attached sheet of drawings includes changes to Fig. 1. This sheet, which includes Fig. 1, replaces the original sheet including Fig. 1.

Attachment: Annotated Sheet  
Replacement Sheet

Fig 1 has been amended to add an arrow extending from the reference number 1 and to add the word "Inverse" to element 3 as suggested by the Examiner. The changes are shown in pen on the Annotated drawing sheet submitted herewith.

Annotated Sheet

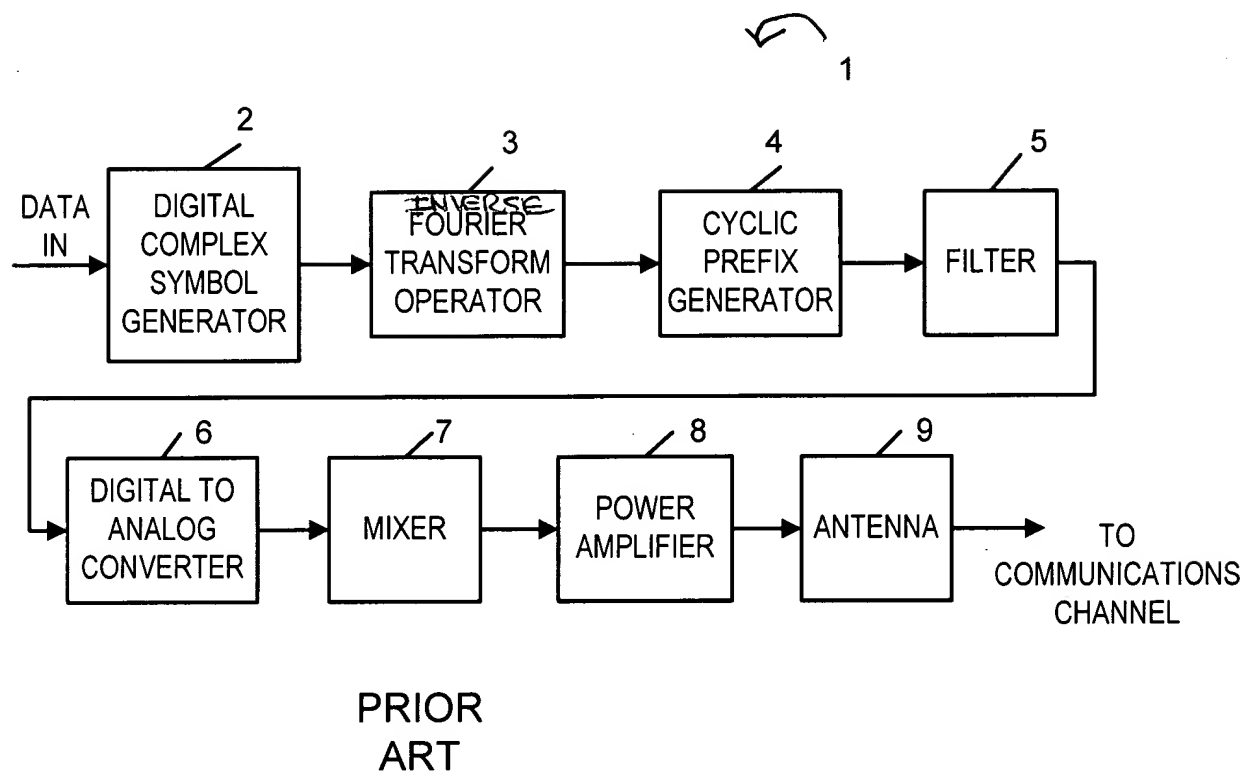


Fig. 1